TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/646,835

DATE: 06/15/2001

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3 <110> APPLICANT: Multhoff, Gabriele 5 <120> TITLE OF INVENTION: New Use of HSP70 Protein 7 <130> FILE REFERENCE: 40740 9. <140> CURRENT APPLICATION NUMBER: 09/646,835 10 <141> CURRENT FILING DATE: 2001-01-11 12 <150> PRIOR APPLICATION NUMBER: PCT/EP99/02165 13 <151> PRIOR FILING DATE: 1999-03-29 15 <160> NUMBER OF SEQ ID NOS: 2 17 <170> SOFTWARE: PatentIn Ver. 2.1 19 <210> SEQ ID NO: 1 20 <211> LENGTH: 641 21 <212> TYPE: PRT 22 <213> ORGANISM: homo sapiens 24 <300> PUBLICATION INFORMATION: 25 <301> AUTHORs: Milner, Caroline M. 26 <302> TITLE: Structure and Expression of the Three MHC-Linked HSP70 Genes 28 <303> JOURNAL: Immunogenetics 29 <304> VOLUME: 32 30 <305> ISSUE: 4 31 <306> PAGES: 242-251 32 <307> DATE: 1990 33 <313> RELEVANT RESIDUES: 384 TO 561 35 <400> SEQUENCE: 1 36 Met Ala Lys Ala Ala Ala Ile Gly Ile Asp Leu Gly Thr Thr Tyr Ser 39 Cys Val Gly Val Phe Gln His Gly Lys Val Glu Ile Ile Ala Asn Asp 42 Gln Gly Asn Arg Thr Thr Pro Ser Tyr Val Ala Phe Thr Asp Thr Glu 45 Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln Val Ala Leu Asn Pro Gln 48 Asn Thr Val Phe Asp Ala Lys Arg Leu Ile Gly Arg Lys Phe Gly Asp 51 Pro Val Val Gln Ser Asp Met Lys His Trp Pro Phe Gln Val Ile Asn 54 Asp Gly Asp Lys Pro Lys Val Gln Val Ser Tyr Lys Gly Glu Thr Lys 105 57 Ala Phe Tyr Pro Glu Glu Ile Ser Ser Met Val Leu Thr Lys Met Lys 120 115 60 Glu Ile Ala Glu Ala Tyr Leu Gly Tyr Pro Val Thr Asn Ala Val Ile 63 Thr Val Pro Ala Tyr Phe Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp 155 66 Ala Gly Val Ile Ala Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro

69 Thr Ala Ala Ile Ala Tyr Gly Leu Asp Arg Thr Gly Lys Gly Glu

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72 Arg Asn Val Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser 195 200 75 Ile Leu Thr Ile Asp Asp Gly Ile Phe Glu Val Lys Ala Thr Ala Gly 215 78 Asp Thr His Leu Gly Gly Glu Asp Phe Asp Asn Arg Leu Val Asn His 230 235 81 Phe Val Glu Glu Phe Lys Arg Lys His Lys Lys Asp Ile Ser Gln Asn 245 250 84 Lys Arg Ala Val Arg Arg Leu Arg Thr Ala Cys Glu Arg Ala Lys Arg 265 260 87 Thr Leu Ser Ser Ser Thr Gln Ala Ser Leu Glu Ile Asp Ser Leu Phe 275 280 90 Glu Gly Ile Asp Phe Tyr Thr Ser Ile Thr Arg Ala Arg Phe Glu Glu 295 93 Leu Cys Ser Asp Leu Phe Arg Ser Thr Leu Glu Pro Val Glu Lys Ala 94 305 310 96 Leu Arg Asp Ala Lys Leu Asp Lys Ala Gln Ile His Asp Leu Val Leu 330 325 99 Val Gly Gly Ser Thr Arg Ile Pro Lys Val Gln Lys Leu Leu Gln Asp 345 102 Phe Phe Asn Gly Arg Asp Leu Asn Lys Ser Ile Asn Pro Asp Glu Ala 355 360 105 Val Ala Tyr Gly Ala Ala Val Gln Ala Ala Ile Leu Met Gly Asp Lys 375 108 Ser Glu Asn Val Gln Asp Leu Leu Leu Asp Val Ala Pro Leu Ser 390 395 111 Leu Gly Leu Glu Thr Ala Gly Gly Val Met Thr Ala Leu Ile Lys Arg 410 114 Asn Ser Thr Ile Pro Thr Lys Gln Thr Gln Ile Phe Thr Thr Tyr Ser 420 · 425 117 Asp Asn Gln Pro Gly Val Leu Ile Gln Val Tyr Glu Gly Glu Arg Ala 440 120 Met Thr Lys Asp Asn Asn Leu Leu Gly Arg Phe Glu Leu Ser Gly Ile 455 460 123 Pro Pro Ala Pro Arg Gly Val Pro Gln Ile Glu Val Thr Phe Asp Ile 470 475 126 Asp Ala Asn Gly Ile Leu Asn Val Thr Ala Thr Asp Lys Ser Thr Gly 485 490 129 Lys Ala Asn Lys Ile Thr Ile Thr Asn Asp Lys Gly Arg Leu Ser Lys 500 505 132 Glu Glu Ile Glu Arg Met Val Gln Glu Ala Glu Lys Tyr Lys Ala Glu 520 135 Asp Glu Val Gln Arg Glu Arg Val Ser Ala Lys Asn Ala Leu Glu Ser 535 138 Tyr Ala Phe Asn Met Lys Ser Ala Val Glu Asp Glu Gly Leu Lys Gly 550 555 141 Lys Ile Ser Glu Ala Asp Lys Lys Lys Val Leu Asp Lys Cys Gln Glu 565

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144 Val Ile Ser Trp Leu Asp Ala Asn Thr Leu Ala Glu Lys Asp Glu Phe 585 580 145 147 Glu His Lys Arg Lys Glu Leu Glu Gln Val Cys Asn Pro Ile Ile Ser 148 595 605 150 Gly Leu Tyr Gln Gly Ala Gly Gly Pro Gly Pro Gly Phe Gly Ala 615 153 Gln Gly Pro Lys Gly Gly Ser Gly Ser Gly Pro Thr·Ile Glu Glu Val 154 625 630 635 -156 Asp 160 <210> SEQ ID NO: 2 161 <211> LENGTH: 7 162 <212> TYPE: PRT 163 <213> ORGANISM: homo sapiens 165 <400> SEQUENCE: 2

166 Asn Leu Leu Gly Arg Phe Glu

167 1

VERIFICATION SUMMARY

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